



United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



IN REPLY REFER TO: MT-450

August 5, 2014

FAXOGRAM: Water Order Change

To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota
Attention: F-6001
Chief, Power Dispatching Branch, WAPA, Loveland, Colorado
Attention: J-4120
Facilities Manager, Hardin, Montana
Attention: MT-300: Tom Tauscher
Project Manager, Mills, Wyoming
Attention: WY-4000, WY-4100, WY-6040
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Valerie Newman

From: Reservoir and River Operations, Billings, Montana /s/ Tim Felchle

Subject: **Yellowtail Water Release Order - BHR No. 14-75**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.34; Storage: 1,012,331 acre-feet; River Release: 2,500 cfs; Inflow: 2,850 cfs;

GENERAL COMMENTS:

Release to the Bighorn River will be increased as inflows continue to be above average. In response, the following operations are required at Yellowtail Dam and Powerplant and Yellowtail Afterbay Dam.

SPECIAL NOTE: To provide the proper mixing of water releases to the Bighorn River in attempt to minimize PSAT levels, it is desirable to maintain the Yellowtail Afterbay Reservoir between a maximum elevation of 3192.0 feet and a minimum elevation of 3183.6 feet and provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates, plus or minus 10%.

YELLOWTAIL TURBINE RELEASE:

At 1600 hour on Wednesday, August 6, 2014:

Increase average daily turbine release to 2,955 cfs (\approx 2,104 MW-Hours/day using 33.7 cfs/mw).

Due to major unit re-wind project, restrict and limit turbine release to 3-unit capacity.

AFTERBAY RELEASE AND OPERATION:

At 1600 hour on Wednesday, August 6, 2014:

Maintain diversions to the Bighorn Canal at 425 cfs (gage height = 74.58 with -1.25 shift).

Increase river release to 2,600 cfs (gage height = 60.42 with -0.34 shift).

Increase total release from the Afterbay to 3,025 cfs.